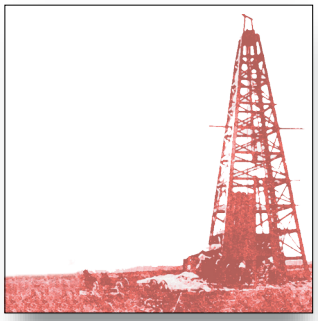
National Assessment of Oil and Gas Project:

Petroleum Systems and Geologic Assessment of Undiscovered Oil and Gas, Cotton Valley Group and Travis Peak–Hosston Formations, East Texas Basin and Louisiana-Mississippi Salt Basins Provinces of the Northern Gulf Coast Region



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By U.S. Geological Survey Gulf Coast Region Assessment Team

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Conversion Factors (Approximate) *

Note: For this assessment, 6,000 cubic feet of gas equals 1 barrel of oil equivalent (BOE).

To convert from	To	Multiply by
Length		
foot (ft)	kilometer (km)	0.000305
foot (ft)	meter (m)	0.305
foot (ft)	mile (mi)	0.000189
kilometer (km)	foot (ft)	3,280
kilometer (km)	mile (mi)	0.621
meter (m)	foot (ft)	3.28
mile (mi)	foot (ft)	5,280
mile (mi)	kilometer (km)	1.61
Area		
sq. kilometer (km^2)	sq. mile (mi^2)	0.386
sq. mile (mi^2)	sq. kilometer (km^2)	2.59
Weight		
metric ton	ton, short (2,000 lb)	1.10
ton, short (2,000 lb)	metric ton	0.907
Crude oil (based on average specific gravity at standard temperature and pressure)		
barrel (bbl)	metric ton	0.136
barrel (bbl)	ton, short (2,000 lb)	0.150
metric ton	barrel (bbl)	7.33
ton, short (2,000 lb)	barrel (bbl)	6.65

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* Compiled by T.R. Klett

Conversion Factors (Approximate)—Continued

To convert from	To	Multiply by
	Liquid fuels	
barrel (bbl)	cubic meter (m^3)	0.159
barrel (bbl)	gallon (gal)	42.0
barrel (bbl)	liter (L)	159
cubic meter (m^3)	barrel (bbl)	6.29
gallon (gal)	barrel (bbl)	0.0238
liter (L)	barrel (bbl)	0.00629
	Gaseous fuels	
cubic foot (ft^3)	cubic meter (m^3)	0.0283
cubic meter (m^3)	cubic foot (ft^3)	35.3
	Coproduct ratios	
cubic feet per barrel (ft^3/bbl or CF/B)	cubic meters per cubic meters (m^3/m^3)	0.178
barrel per million cubic feet (bbl/1,000,000 ft^3 or B/MMCF)	cubic centimeters per cubic meter (cm^3/m^3)	5.61
cubic meters per cubic meters (m^3/m^3)	cubic feet per barrel (ft^3/bbl or CF/B)	5.61
cubic centimeters per cubic meters (cm^3/m^3)	barrel per million cubic feet (bbl/1,000,000 ft^3 or B/MMCF)	0.178
	Geothermal gradients	
degree Celsius per 100 meters (°C/100 m)	degree Fahrenheit per 100 feet (°F/100 ft)	0.549
degree Fahrenheit per 100 feet (°F/100 ft)	degree Celsius per 100 meters (°C/100 m)	1.82

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